

CLAIMS

What is claimed is:

1. A fuel pump module with integrated vapor manifold comprising:
a modular flange for mounting to a fuel tank, the flange having a top side, a bottom side, and a manifold for merging fuel vapor received from a plurality of sources within said tank for discharge from said manifold through a single vapor outlet on the top side of the modular flange.
2. The fuel pump module with integrated vapor manifold of Claim 1 wherein at least one source within said tank comprises a primary vent valve attached directly to the bottom side of the manifold.
3. The fuel pump module with an integrated vapor manifold of Claim 1 wherein at least one source within said tank comprises a remotely located vent valve attached to the manifold through an concealed internal tank vent line.
4. The fuel pump module with integrated vapor manifold of Claim 3 wherein fuel vapors collected from said remotely located vent valve merge with vapors collected from a secondary vent valve prior to entering the manifold.

5. The fuel pump module with integrated vapor manifold of Claim 3 wherein the manifold comprises a means of preventing fuel within manifold from entering internal tank vent line.

6. The fuel pump module with integrated vapor manifold of Claim 4 wherein said secondary vent valve is attached proximal the manifold.

7. A fuel pump module with integrated vapor manifold comprising:
a modular flange for mounting to a fuel tank, the flange having a top side, a bottom side, and a manifold for merging fuel vapor received from a plurality of sources within said tank for discharge from said manifold through a single vapor outlet on the top side of the modular flange;

at least one source within said tank comprising a primary vent valve attached directly to the bottom side of the manifold;

at least one source within said tank comprising a remotely located vent valve attached to the manifold through an concealed, internal tank vent line.

8. The fuel pump module with integrated vapor manifold of Claim 7 wherein vapors discharged from the vapor outlet travel through an exterior vapor line to a canister for storage.